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#### FIG. 1A

#### GAATTCTCTGGACTGAGGCTCCAGTTCTGGCCTTTGGGG TTCAAGATCACTGGGACCAGGCCGTGATCTCTATGCCCGAGTCTCAACCCTCAACTGTC ACCCCAAGGCACTTGGGACGTCCTGGACAGACCGAGTCCCGGGAAGCCCCAGCACTGCC GCTGCCACACTGCCCTGAGCCCAAATGGGGGAGTGAGAGGCCA TAG CTG TCT GGC **S10 S**5 **S15** Met Gly Leu Ser Thr Val Pro Asp Leu Leu Pro Leu Val Leu ATG GGC CTC TCC ACC GTG CCT GAC CTG CTG CTG CCA CTG GTG CTC **S20 S25** Leu Glu Leu Leu Val Gly Ile Tyr Pro Ser Gly Val Ile Gly Leu CTG GAG CTG TTG GTG GGA ATA TAC CCC TCA GGG GTT ATT GGA CTG Val Pro His Leu Gly Asp Arg Glu Lys Arg Asp Ser Val Cys Pro GTC CCT CAC CTA GGG GAC AGG GAG AAG AGA GAT AGT GTG TGT CCC Gln Gly Lys Tyr Ile His Pro Gln Asn Asn Ser Ile Cys Cys Thr CAA GGA AAA TAT ATC CAC CCT CAA AAT AAT TCG ATT TGC TGT ACC Lys Cys His Lys Gly Thr Tyr Leu Tyr Asn Asp Cys Pro Gly Pro AAG TGC CAC AAA GGA ACC TAC TTG TAC AAT GAC TGT CCA GGC CCG Gly Gln Asp Thr Asp Cys Arg Glu Cys Glu Ser Gly Ser Phe Thr GGG CAG GAT ACG GAC TGC AGG GAG TGT GAG AGC GGC TCC TTC ACC Ala Ser Glu Asn His Leu Arg His Cys Leu Ser Cys Ser Lys Cys GCT TCA GAA AAC CAC CTC AGA CAC TGC CTC AGC TGC TCC AAA TGC Arg Lys Glu Met Gly Gln Val Glu Ile Ser Ser Cys Thr Val Asp CGA AAG GAA ATG GGT CAG GTG GAG ATC TCT TCT TGC ACA GTG GAC

## FIG. 1B

						Asn Gln		105 Arg His CGG CAT 612	
Trp Ser TGG AGT 621	Glu GAA	110 Asn Leu AAC CTT 630	Phe TTC	Gln Cys CAG TGC 639	115 Phe TTC	Asn Cys AAT TGC 648	Ser AGC	120 Leu Cys CTC TGC 657	Leu CTC
Asn Gly AAT GGG 666	Thr	125 Val His GTG CAC 675	Leu CTC	Ser Cys TCC TGC 684	130 Gln CAG	Glu Lys GAG AAA 693	Gln CAG	135 Asn Thr AAC ACC 702	Val GTG
Cys Thr TGC ACC 711	Cys TGC	140 His Ala CAT GCA 720	Gly GGT	Phe Phe TTC TTT 729	145 Leu CTA	Arg Glu AGA GAA 738	Asn AAC	150 Glu Cys GAG TGT 747	Val GTC
Ser Cys TCC TGT 756	Ser AGT	155 Asn Cys AAC TGT 765	Lys AAG	Lys Ser AAA AGC 774	160 Leu CTG	Glu Cys GAG TGC 783	Thr ACG	165 Lys Leu AAG TTG 792	Cys TGC
Leu Pro CTA CCC 801	Gln CAG	170 Ile Glu ATT GAG 810	Asn AAT	Val Lys GTT AAG 819	175 Gly GGC	Thr Glu ACT GAG 828	Asp GAC	180 Ser Gly TCA GGC 837	Thr ACC
Thr Val ACA GTG 846	CTG	185 Leu Pro TTG CCC 855	Leu CTG	Val Ile GTC ATT 864	190 Phe TTC	Phe Gly TTT GGT 873	Leu CTT	195 Cys Leu TGC CTT 882	Leu TTA
								210 Arg Trp CGG TGG 927	
Ser Lys TCC AAG 936	Leu CTC	215 Tyr Ser TAC TCC 945	Ile ATT	Val Cys GTT TGT 954	220 Gly GGG	Lys Ser AAA TCG 963	Thr ACA	225 Pro Glu CCT GAA 972	Lys AAA
Glu Gly GAG GGG	C1	230	Glw	The The	235	tue Pro	T.011	240	Àsn

## FIG. 1C

Pro Ser CCA AGC 1026			Pro CCC		CCA		TTC	Thr	CCC			GGC	
Ser Pro AGT CCC 1071	Val GTG	CCC	Ser AGT BO	Ser	ACC	TTC	Thr	Ser TCC 10	Ser AGC	Ser	Thr ACC	TĀT	Thr ACC
Pro Gly CCC GGT 1116	Asp GAC	275 Cys TGT 112	CCC	AAC	TTT	Ala GCG 34	GCT	Pro	CGC	AGA	Glu GAG 11	GTG	Ala GCA
Pro Pro CCA CCC 1161			GGG		GAC		Ile		Ala GCG			CTC	
Ser Asp TCC GAC 1206	CCC		CCC	AAC		CTT	CAG		TGG			AGC	
His Lys CAC AAG 1251	CCA		AGC		GAC	ACT	GAT		CCC			CTG	
Ala Val GCC GTG 1296			Asn AAC			CCG			TGG	AA G	GAAT 1332		

FIG. 2

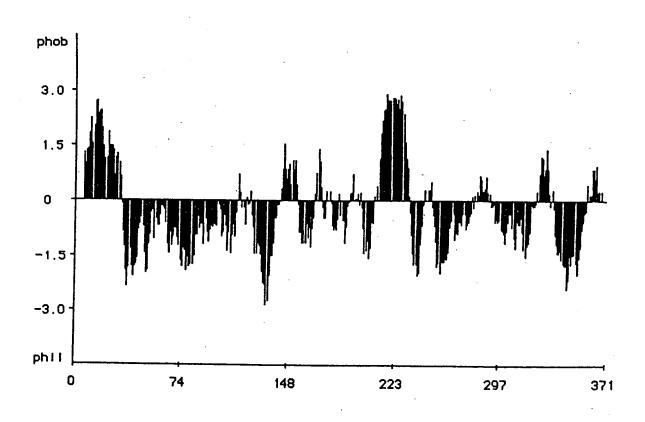


FIG. 3A

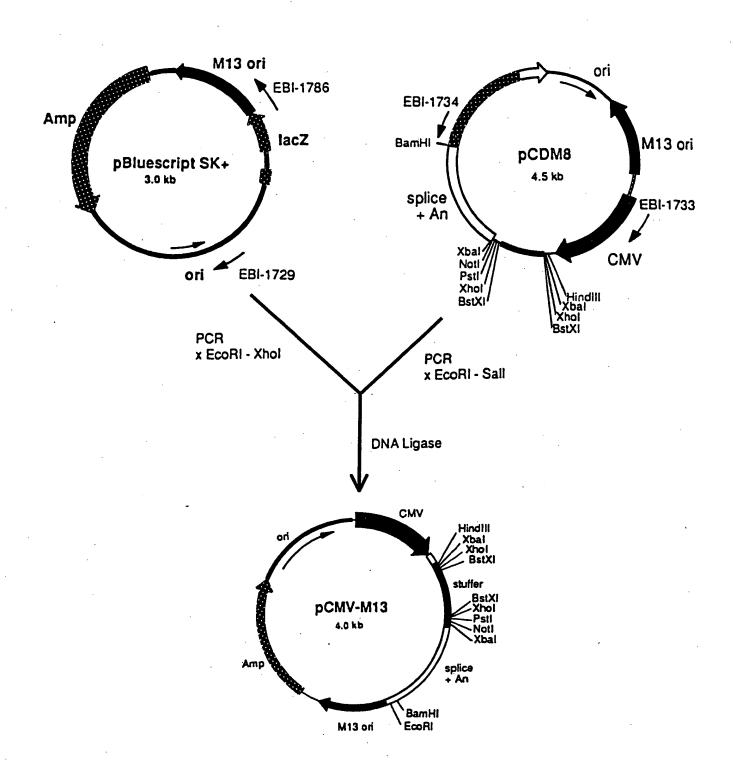
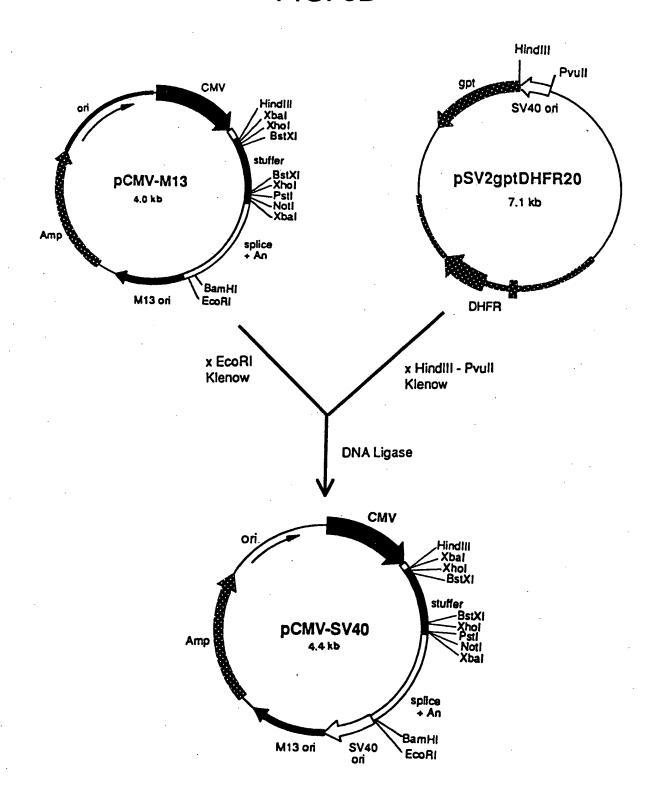
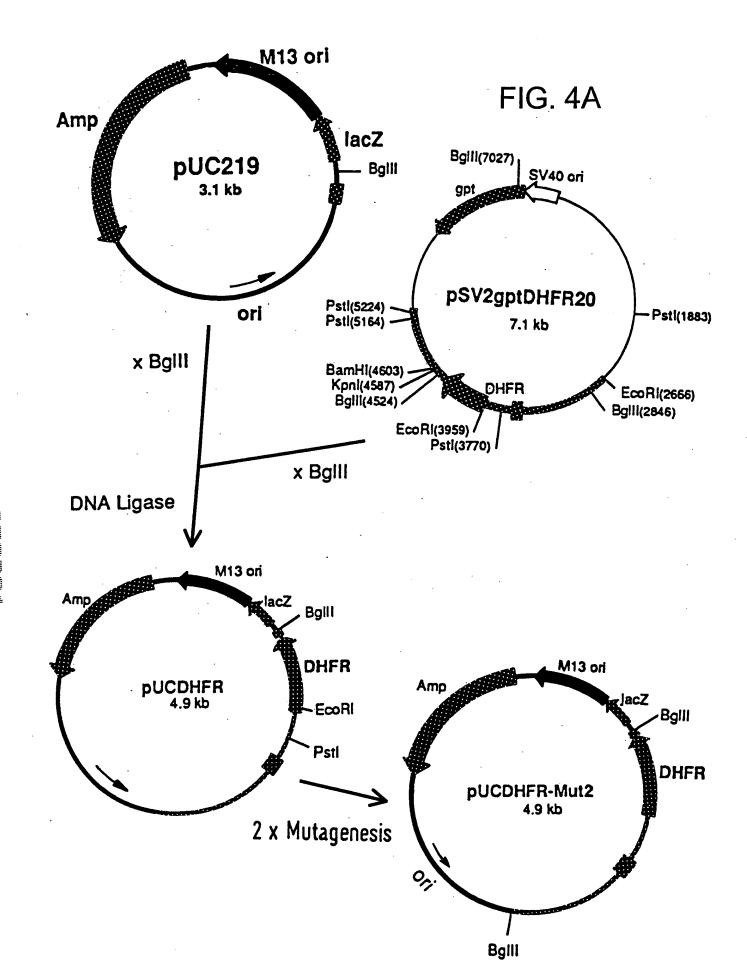
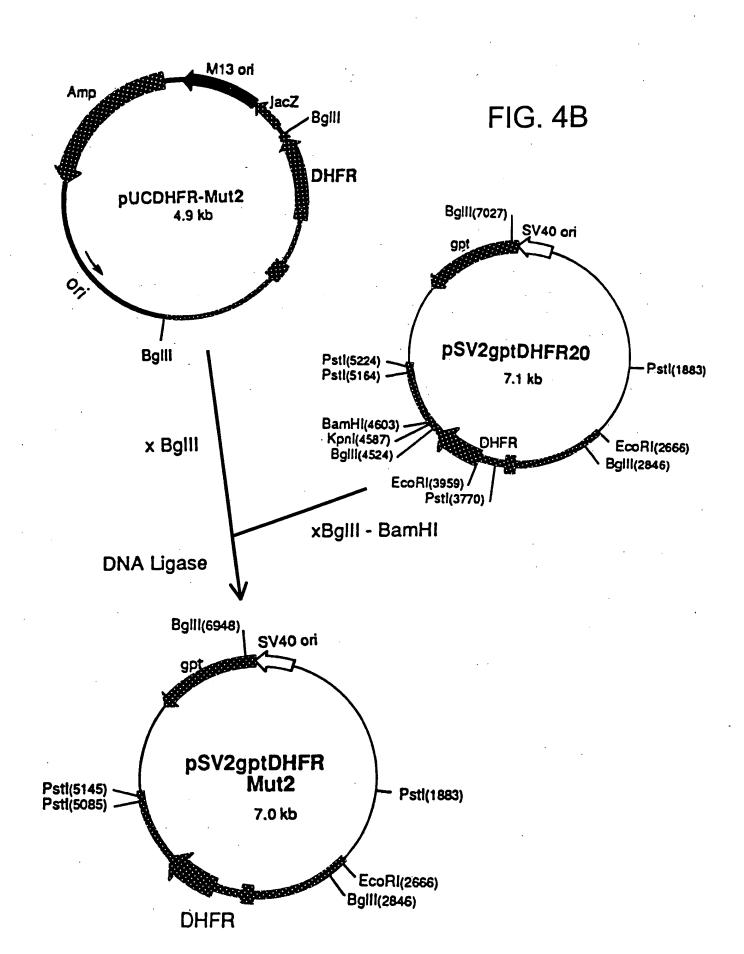
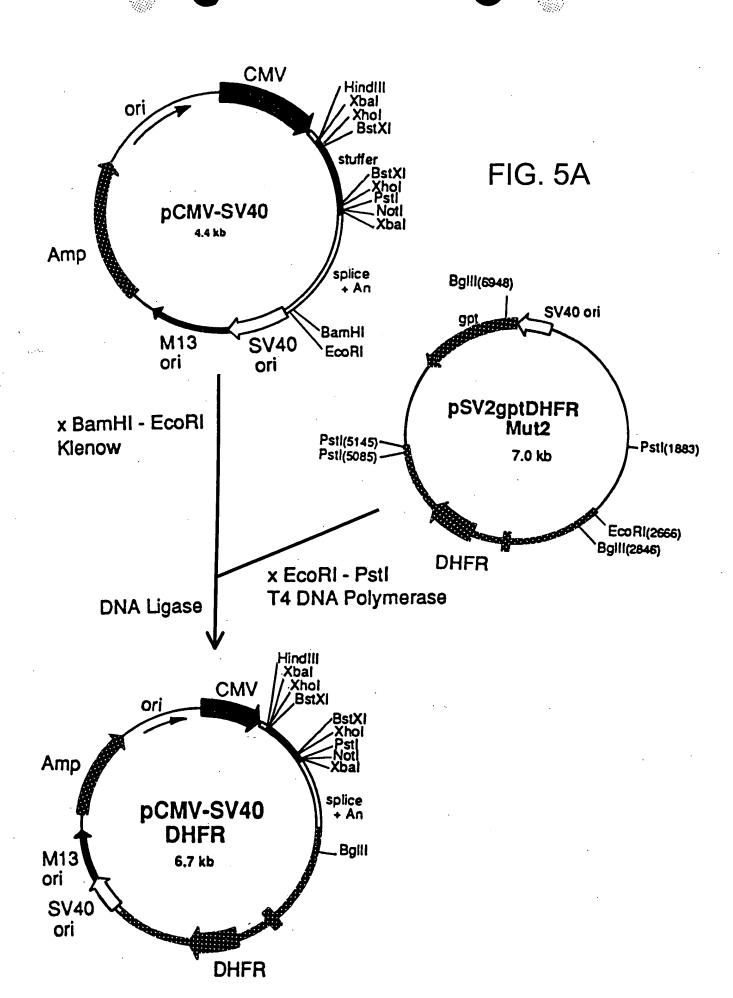


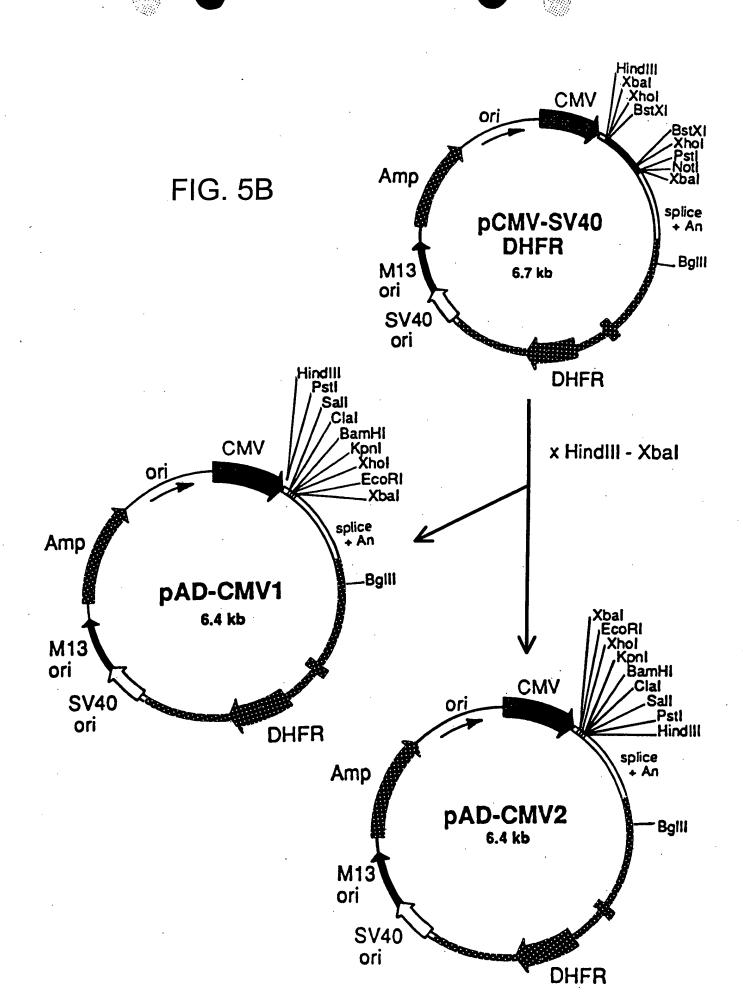
FIG. 3B













pAD-CMV1 : 6414 bp

T	'CGACATTG	A TTATTGACT	A GTTATTAATA	A GTAATCAATT	r ACGGGGTCA:	TAGTTCATAG	60
С	CCATATAT	G GAGTTCCGC	G TTACATAACT	TACGGTAAAT	GGCCCGCCTC	GCTGACCGCC	120
С	AACGACCC	C CGCCCATTG	A CGTCAATAAT	GACGTATGTT	CCCATAGTA	A CGCCAATAGG	180
G	ACTTTCCA	T TGACGTCAA	r GGGTGGAGTA	. TTTACGGTAA	ACTGCCCACT	TGGCAGTACA	240
T	CAAGTGTA	T CATATGCCA	A GTACGCCCC	: TATTGACGTC	AATGACGGTA	AATGGCCCGC	300
C	TGGCATTA	T GCCCAGTACA	TGACCTTATG	GGACTTTCCT	ACTTGGCAGT	ACATCTACGT	360
A'	TTAGTCAT	C GCTATTACCA	TGGTGATGCG	GTTTTGGCAG	TACATCAATG	GGCGTGGATA	420
G	CGGTTTGA	C TCACGGGGAI	TTCCAAGTCT	CCACCCATT	GACGTCAATG	GGAGTTTGTT	480
T.	IGGCACCAI	A AATCAACGGG	ACTTTCCAAA	ATGTCGTAAC	AACTCCGCCC	CATTGACGCA	540
. A.	ATGGGCGGT	P AGGCGTGTAC	GGTGGGAGGT	CTATATAAGC	AGAGCTCTCT	GGCTAACTAG	600
AC	SAACCCACI	GCTTAACTGG	CTTATCGAAA	TTAATACGAC	TCACTATAGG	GAGACCCAAG	660
CI	TCTGCAGG	TCGACATCGA	TGGATCCGGT	ACCTCGAGCG	CGAATTCTCT	AGAGGATCTT	720
TG	STGAAGGAA	CCTTACTTCT	GTGGTGTGAC	ATAATTGGAC	AAACTACCTA	CAGAGATTTA	780
AA	GCTCTAAG	GTAAATATAA	AATTTTTAAG	TGTATAATGT	GTTAAACTAC	TGATTCTAAT	840
TG	TTTGTGTA	TTTTAGATTC	CAACCTATGG	AACTGATGAA	TGGGAGCAGT	GGTGGAATGC	900
CT	TTAATGAG	GAAAACCTGT	TTTGCTCAGA	AGAAATGCCA	TCTAGTGATG	ATGAGGCTAC	960
TG	CTGACTCT	CAACATTCTA	CTCCTCCAAA	AAAGAAGAGA	AAGGTAGAAG	ACCCCAAGGA	1020
CT	TTCCTTCA	GAATTGCTAA	GTTTTTTGAG	TCATGCTGTG	TTTAGTAATA	GAACTCTTGC	1080
TT	GCTTTGCT	ATTTACACCA	CAAAGGAAAA	AGCTGCACTG	CTATACAAGA	Aaattatgga	1140
AA	Aatatttg	ATGTATAGTG	CCTTGACTAG	AGATCATAAT	CAGCCATACC	ACATTTGTAG	1200
AG	GTTTTACT	TGCTTTAAAA	AACCTCCCAC	ACCTCCCCT	GAACCTGAAA	CATAAAATGA	1260
ATO	GCAATTGT	TGTTGTTAAC	TTGTTTATTG	CAGCTTATAA	TGGTTACAAA	TAAAGCAATA	1320
GC	ATCACAAA	TTTCACAAAT	AAAGCATTTT	TTTCACTGCA	TTCTAGTTGT	GGTTTGTCCA	1380
AAC	CTCATCAA	TGTATCTTAT	CATGTCTGGA	TCAATTCTGA	GAAACTAGCC	TTAAAGACAG	1440

## FIG. 6B

ACAGCTTTG:	T TCTAGTCAG	CAGGCAAGC	A TATGTAAAT	A AAGTTCCTC	A GGGAACTGAG	1500
GTTAAAAGA	T GTATCCTGG	A CCTGCCAGA	C CTGGCCATT	C ACGTAAACA	G AAGATTCCGC	1560
CTCAAGTTCC	GGTTAACAAC	AGGAGGCAA	C GAGATCTCA	A ATCTATTAC	T TCTAATCGGG	1620
TAATTAAAAC	CTTTCAACTA	AAACACGGA	C CCACGGATG	T CACCCACTT	T TCCTTCCCCG	1680
GCTCCGCCCT	TCTCAGTACT	CCCCACCAT	r aggeteget.	A CTCCACCTC	ACTTCCGGGC	1740
GCGACACCCA	CGTGCCCTCT	CCCACCGAC	GCTAACCCCG	CCCCTGCCCG	TCTGACCCCG	1800
CCCACCACCT	, eeccceccc	CGTTGAGGAC	AGAAGAAACC	CCGGGCAGCC	GCAGCCAAGG	1860
CGGACGGGTA	GACGCTGGGG	GCGCTGAGGA	GTCGTCCTCT	ACCTTCTCTG	CTGGCTCGGT	1920
GGGGGACGCG	GTGGATCTCA	GGCTTCCGGA	AGACTGGAAG	AACCGGCTCA	GAACCGCTTG	1980
TCTCCGCGGG	GCTTGGGCGG	CGGAAGAATG	GCCGCTAGAC	GCGGACTTGG	TGCGAGGCAT	2040
CGCAGGATGC	AGAAGAGCAA	GCCCGCCGGG	AGCGCGCGGC	TGTACTACCC	CGCGCCTGGA	2100
GCGGCCACGC	CGGACTGGGC	GGGCCGGCC	TGGTGGAGGC	GGAGTCTGAC	CTCGTGGAGG	2160
CGGGGCCTCT	GATGTTCAAA	TAGGATGCTA	GGCTTGTTGA	GGCGTGGCCT	CCGATTCACA	2220
AGTGGGAAGC	AGCGCCGGGC	GACTGCAATT	TCGCGCCAAA	CTTGGGGGAA	GCACAGCGTA	2280
CAGGCTGCCT	AGGTGATCGC	TGCTGCTGTC	ATGGTTCGAC	CGCTGAACTG	CATCGTCGCC	2340
GTGTCCCAGA	ATATGGGCAT	CGGCAAGAAC	GGAGACCTTC	CCTGGCCAAT	GCTCAGGTAC	2400
TGGCTGGATT	GGGTTAGGGA	AACCGAGGCG	GTTCGCTGAA	TCGGGTCGAG	CACTTGGCGG	2460
AGACGCGCGG	GCCAACTACT	TAGGGACAGT	CATGAGGGGT	AGGCCCGCCG	GCTGCTGCCC	2520
TTGCCCATGC	CCGCGGTGAT	CCCCATGCTG	TGCCAGCCTT	TGCCCAGAGG	CGCTCTAGCT	2580
GGAGCAAAG	TCCGGTCACT	GGGCAGCACC	ACCCCCGGA	CTTGCATGGG	TAGCCGCTGA	2640
GATGGAGCCT	GAGCACACGT	GACAGGGTCC	CTGTTAACGC	AGTGTTTCTC	TAACTTTCAG	2700
GAACGAGTTC	AAGTACTTCC	AAAGAATGAC	CACCACCTCC	TCAGTGGAAG	GTAAACAGAA	2760
CCTGGTGATT	ATGGGCCGGA	AAACCTGGTT	CTCCATTCCT	GAGAAGAATC	GACCTTTAAA	2820
GACAGAATT	AATATAGTTC	TCAGTAGAGA	GCTCAAGGAA	CCACCACAAG	GAGCTCATTT	2880
CTTGCCAAA	AGTCTGGACC	ATGCCTTAAA	ACTTATTGAA	CAACCAGAGT	TAGCAGATAA	2940
AGTGGACATG	GTTTGGATAG	TTGGAGGCAG	TTCCGTTTAC	AAGGAAGCCA	TGAATCAGCC	3000

## FIG. 6C

AGGCCATCT	C AGACTCTTTG	G TGACAAGGAT	r Catgcagga	A TTTGAAAGTO	ACACGTTCTT	306
CCCAGAAATT	r gatttggaga	AATATAAACI	TCTCCCAGA	G TACCCAGGGG	TCCTTTCTGA	312
AGTCCAGGAG	GAAAAAGGCA	TCAAGTATAA	ATTTGAAGT	C TATGAGAAGA	AAGGCTAACA	318
GAAAGATACT	TGCTGATTGA	CTTCAAGTTC	TACTGCTTT	CTCCTAAAAT	TATGCATTTT	324
TACAAGÁCCA	TGGGACTTGT	GTTGGCTTTA	A GATCCTGTG	C ATCCTGGGCA	ACTGTTGTAC	330
TCTAAGCCAC	TCCCCAAAGT	CATGCCCCAG	CCCCTGTATA	A ATTCTAAACA	ATTAGAATTA	336
TTTTCATTT	CATTAGTCTA	ACCAGGTTAT	TATAAATAT	A CTTTAAGAAA	CACCATTTGC	342
CATAAAGTTC	TCAATGCCCC	TCCCATGCAG	CCTCAAGTG	G CTCCCCAGCA	GATGCATAGG	348
GTAGTGTGTG	TACAAGAGAC	CCCAAAGACA	TAGAGCCCC	r GAGAGCATGA	GCTGATATGG	354
GGGCTCATAG	AGATAGGAGC	TAGATGAATA	AGTACAAAGG	GCAGAAATGG	GTTTTAACCA	3600
GCAGAGCTAG	AACTCAGACT	TTAAAGAAAA	TTAGATCAAA	GTAGAGACTG	AATTATTCTG	3660
CACATCAGAC	TCTGAGCAGA	GTTCTGTTCA	CTCAGACAGA	AAATGGGTAA	ATTGAGAGCT	3720
GGCTCCATTG	TGCTCCTTAG	AGATGGGAGC	AGGTGGAGGA	TTATATAAGG	TCTGGAACAT	3780
TTAACTTCTC	CGTTTCTCAT	CTTCAGTGAG	ATTCCAAGGG	ATACTACAAT	TCTGTGGAAT	3840
GTGTGTCAGT	TAGGGTGTGG	AAAGTCCCCA	GGCTCCCCAG	CAGGCAGAAG	TATGCAAAGC	3900
ATGCATCTCA	ATTAGTCAGC	AACCAGGTGT	GGAAAGTCCC	CAGGCTCCCC	AGCAGGCAGA	3960
AGTATGCAAA	GCATGCATCT	CAATTAGTCA	GCAACCATAG	TCCCGCCCCT	AACTCCGCCC	4020
ATCCCGCCCC	TAACTCCGCC	CAGTTCCGCC	CATTCTCCGC	CCCATGGCTG	ACTAATTTTT	4080
TTTATTTATG	CAGAGGCCGA	GGCGCCTCTG	AGCTATTCCA	GAAGTAGTGA	GGAGGCTTTT	4140
TTGGAGGCCT	AGGCTTTTGC	AAAAAAGCTA	ATTCAGCCTG	AATGGCGAAT	GGGACGCGCC	4200
CTGTAGCGGC	GCATTAAGCG	CGGCGGGTGT	GGTGGTTACG	CGCAGCGTGA	CCGCTACACT	4260
TGCCAGCGCC	CTAGCGCCCG	CTCCTTTCGC	TTTCTTCCCT	TCCTTTCTCG	CCACGTTCGC	4320
CGGCTTTCCC	CGTCAAGCTC	TAAATCGGGG	GCTCCCTTTA	GGGTTCCGAT	TTAGTGCTTT	4380
ACGGCACCTC	GACCCCAAAA	ACTTGATTAG	GGTGATGGTT	CACGTAGTGG	GCCATCGCCC	4440
TGATAGACGG	TTTTTCGCCC	TTTGACGTTG	GAGTCCACGT	TCTTTAATAG	TGGACTCTTG	4500
TTCCAAACTG	GAACAACACT	CAACCCTATC	TCGGTCTATT	CTTTTGATTT	ATAAGGGATT	4560

## FIG. 6D

TTGCCGATT	T CGGCCTATTC	GTTAAAAAA1	r GAGCTGATT:	r aacaaaaati	TAACGCGAAT	462
TTTAACAAA	A TATTAACGTT	TACAATTTCA	GGTGGCACT	r TTCGGGGAAA	TGTGCGCGGA	468
ACCCCTATT	I GTTTATTTT	CTAAATACAI	TCAAATATG	T ATCCGCTCAT	GAGACAATAA	474
CCCTGATAA	A TGCTTCAATA	ATATTGAAAA	AGGAAGAGT	A TGAGTATTCA	ACATTTCCGT	480
GTCGCCCTT	A TTCCCTTTTT	TGCGGCATTT	TGCCTTCCTG	TTTTTGCTCA	CCCAGAAACG	486
CTGGTGAAA	G TAAAAGATGC	TGAAGATCAG	TTGGGTGCAC	GAGTGGGTTA	CATCGAACTG	492
GATCTCAAC	A GCGGTAAGAT	CCTTGAGAGT	TTTCGCCCCG	AAGAACGTTT	TCCAATGATG	498
AGCACTTTT	A AAGTTCTGCT	ATGTGGCGCG	GTATTATCCC	GTATTGACGC	CGGGCAAGAG	504
CAACTCGGT	C GCCGCATACA	CTATTCTCAG	AATGACTTGG	TTGAGTACTC	ACCAGTCACA	510
GAAAAGCATO	TTACGGATGG	CATGACAGTA	AGAGAATTAT	GCAGTGCTGC	CATAACCATG	516
AGTGATAACA	CTGCGGCCAA	CTTACTTCTG	ACAACGATCG	GAGGACCGAA	GGAGCTAACC	522
GCTTTTTTGC	CACAACATGGG	GGATCATGTA	ACTCGCCTTG	ATCGTTGGGA	ACCGGAGCTG	528
AATGAAGCCA	TACCAAACGA	CGAGCGTGAC	ACCACGATGC	CTGTAGCAAT	GGCAACAACG	534
TTGCGCAAAC	TATTAACTGG	CGAACTACTT	ACTCTAGCTT	CCCGGCAACA	ATTAATAGAC	5400
IGGATGGAGG	'CGGATAAAGT	TGCAGGACCA	CTTCTGCGCT	CGGCCCTTCC	GGCTGGCTGG	5460
ITTATTĢCTG	ATAAATCTGG	AGCCGGTGAG	CGTGGGTCTC	GCGGTATCAT	TGCAGCACTG	5520
GGCCAGATG	GTAAGCCCTC	CCGTATCGTA	GTTATCTACA	CGACGGGGAG	TCAGGCAACT	5580
ATGGATGAAC	GAAATAGACA	GATCGCTGAG	ATAGGTGCCT	CACTGATTAA	GCATTGGTAA	5640
CTGTCAGACC	AAGTTTACTC	ATATATACTT	TAGATTGATT	TAAAACTTCA	TTTTAATTT	5700
LAAAGGATCT	AGGTGAAGAT	CCTTTTTGAT	AATCTCATGA	CCAAAATCCC	TTAACGTGAG	5760
TTTCGTTCC	ACTGAGCGTC	AGACCCCGTA	GAAAAGATCA	AAGGATCTTC	TTGAGATCCT	5820
TTTTTCTGC	GCGTAATCTG	CTGCTTGCAA	ACAAAAAAAC	CACCGCTACC	AGCGGTGGTT	5880
GTTTGCCGG	ATCAAGAGCT	ACCAACTCTT	TTTCCGAAGG	TAACTGGCTT	CAGCAGAGCG	5940
AGATACCAA	ATACTGTCCT	TCTAGTGTAG	CCGTAGTTAG	GCCACCACTT	CAAGAACTCT	6000
STAGCACCGC	CTACATACCT	CGCTCTGCTA	ATCCTGTTAC	CAGTGGCTGC	TGCCAGTGGC	6060
ATAAGTCGT	GTCTTACCGG	GTTGGACTCA	AGACGATAGT	TACCGGATAA	GGCGCAGCGG	6120

## FIG. 6E

TCGGGCTGAA	CGGGGGGTTC	GTGCACACAG	CCCAGCTTGG	AGCGAACGAC	CTACACCGAA	6180
CTGAGATACC	TACAGCGTGA	GCATTGAGAA	AGCGCCACGC	TTCCCGAAGG	GAGAAAGGCG	6240
GACAGGTATC	CGGTAAGCGG	CAGGGTCGGA	ACAGGAGAGC	GCACGAGGGA	GCTTCCAGGG	6300
GGAAACGCCT	GGTATCTTTA	TAGTCCTGTC	GGGTTTCGCC	ACCTCTGACT	TGAGCGTCGA	6360
TTTTTGTGAT	GCTCGTCÄGG	GGGGCGGAGC	СТАТССАААА	ACGCCAGCAA	CCCC	

FIG. 7A

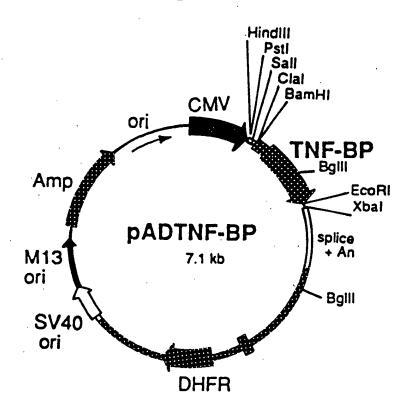


FIG. 7B

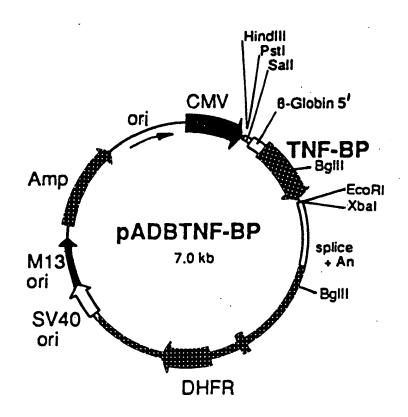


FIG. 7C

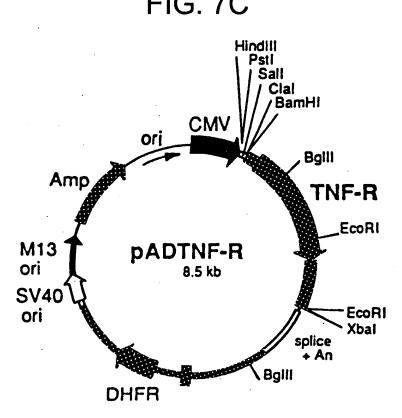
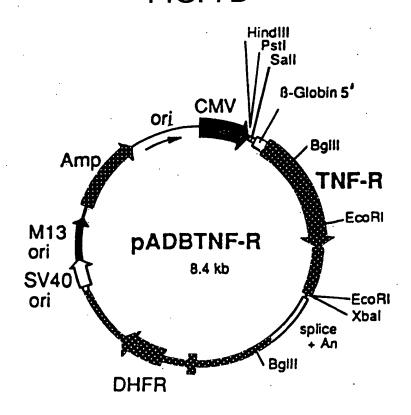


FIG. 7D



### FIG. 8A

#### raTNF-P

ATTC	CTTT	TCT	CCGA	STT :	TTCT	GAAC:	C T	GCT(	CATG	Y IC	GGGC:	TTAC	TGG	ATAC	GAG		60	
TCCT	ggag,	GAC	CGTA	ccc :	IGAT:	rtcc)	AT C	racc:	rctg?	CT	TTGA	CCT	TTC	CAAC	CCG	1:	20	
GCTC	ACGC	TGC	CAAC	ACC (	CGGG	CCAC	CT GC	STCC	SATCO	TC	TTAC:	<b>TTCA</b>	TTC	ACCA	GCG	1.	80	
	ATTG	CTG	CCCT	STC (	CCA	SCCC	CA AC	rggg	<b>GAG</b> 1	GA	GAGA	GCC	ACTO	CCG	CC	2	40	
G GG	r CTC	ccc	CATO	GTO	CCI	r GGC	CTG	CIC	G CTG	TC	A CTO	GTG	CIC	CTC	GC:	CTO	G CT	ATG
t Gly	y Lei	ı Pro	) Ile	<b>≯</b> Val	l Pro	Gly	Let	Let	ı Lev	Sea	r Lei	ı Val	Lev	Let	ı Ala	Le	ı Lei	ı Met
5/21									335	/31								
G AT	A CAC	CCA	Y TC	A GGG	GIC	: ACC	: GG?	CTC	GTI	CC3	r TCI	CTT	GGI	' GAC	CGC	GA	G AAC	AGG
y Ile	e His	Pro	Sex	: Gl	/ Val	Thr	: Gly	, Lei	ı Val	. Pro	Sex	Leu	Gly	' Asp	Arg	Gli	ı Lys	Aro
<b>5/41</b>									395	/51								_
r AA:	r TTG	TGT	CCC	CAG	GG	AAG	TAT	. CCC	CAT	CC	AAA	TAA	' AAT	TCC	ATO	TG	TGC	ACC
o Asi	1 Lev	ı Cys	Pro	Glr	ı Gly	Lys	Туг	Ala	ı His	Pro	Lys	a Asn	Asn	Ser	: Ile	Cy:	S Cys	Thr
5/61									455	/71							_	
G TGC	CAC	: AAA	L GGA	A ACC	TAC	TTG	GTG	AG7	GAC	TG	r CCA	AGC	CCA	GGG	CAC	GA	A ACA	GIC
s Cys	3 His	Lys	Gly	Thr	Tyr	: Lev	Val	. Sei	: Asp	Cys	Pro	Ser	Pro	Gly	Gl:	Gli	ı Thi	: Val
2/8T									515	/91								
GAC	CTC	TCI	CAT	AAA :	GGC	: ACC	TTT	, ACA	GCT	TCG	CAG	AAC	CAC	GTC	: AGA	CAC	G TG1	CTC
GIU	ı Lev	ı Ser	His	Lys	Gly	Thr	Phe	Thi	: Ala	Ser	Gln	Asn	His	Val	. Arg	Glr	ı Cys	Leu
									575	/111	L							
r TGC	AAG	ACA	TGT	CGG	AAA	GAA	ATG	TTC	: CAG	GTG	GAG	ATT	TCT	CCI	TGC	: AA	GCI	GAC
: Cys	r TA2	Thi	Cys	Arg	гла	Glu	Met	Phe	Gln	Val	. Glu	Ile	Ser	Pro	Cys	Lys	3 Ala	Asp
		· ~m~							635	/131								
S GAC	, MUC	. 616	761	GGC	TGC	AAG	AAG	AAC	CAA	TTC	CAG	CGC	TAC	CIG	AGI	GAG	ACG	CAT
. ASP	Thr	Val	Cys	GIĀ	Cys	Lys	Lys	Asn	Gln	Phe	Gln	Arg	Tyr	Leu	Ser	Glu	Thr	His
, C)C	.mcm		C2.C	- mca					695	/151								
. Cho	Cve	17 = 1 G I G	DAC	Cue	AGC	CCC	TGC	TTC	AAT	GGC	ACC	GTG	ACA	ATC	CCC	TGT	AAG	GAG
/161	Cys	VAI	nap	Cys	ser	PIO	Cys	Pne	ASN	GLY	Tnr	Val	Thr	Ile	Pro	Cys	Lys	Glu
		ACC	GTG	ጥርጥ	330	mcc.	CNC	CCN	733	MMC	mmm		3.00					
Gln	Asn	The	Val	Cue	Anc.	Cve	UAC UAC	BLA	Clar	Dho	777	CTA	AGC	GGA	AAT	GAG	TGC	ycc
/181			741	Cys	VOII	Cys	HIS	NIG	OIS	71101	Pne	Leu	ser	GIA	Asn	Glu	Cys	Thr
		CAC	TGC	AAG	222	<b>ה</b> ממ	CAG	CAA	TGT	ATC.	AAG	СТС	TCC	CMA		~~`		
Cvs	Ser	His	Cvs	Lvs	Lvs	Asn	Gln	Glu	Cvs	Mot	Tue	TAU	Cu.	Ton	CCT	CCA	GTT	GCA
/201			-20	-1-	-30		·	024	875	/211	ny 3	Deu	Cys	Den	PIO	PIO	val	Ala
	ACA	AAC	CCC	CAG	GAC	TCA	GGT	ACT	GCC	GTG	CTG	ጥፐር	ССТ	CTG	CTT	3.00	mm0	-
Val	Thr	Asn	Pro	Gln	Asp	Ser	Glv	Thr	Ala	Val	Leu	Leu	Pro	LAU	Val	TIO	770	CTA
/221			•						935/	231								
CTT	TGC	CTT	TTA	TTÇ	TTT	ATC	TGC	ATC	AGT	CTA	CTG	TGC	CGA	ТАТ	CCC	CAG	TGG.	NCC
Leu	Суз	Leu	Leu	Phe	Phe	Ile	Cys	Ile	Ser	Leu	Leu	Cvs	Ara	Tvr	Pro	Gla	Trn	Ara
/241									995/	251								
AGG	GTC	TAC	TCC	ATC	ATT	TGT	AGG	GAT	TCA	GCT	CCT	GTC	AAA	GAG	GTG	GAG	GGT	GAA
Arg	Val	Tyr	Ser	Ile	Ile	Cys	Arg	Asp	Ser	Ala	Pro	Val	Lys	Glu	Val	Glu	Glv	Glu
5/26	L								1055	/273	L						_	
ATT	GTT	ACT	AAG	CCC	CTA	ACT	CCA	GCC	TCT	ATC	CCA	GCC	TTC	AGC	CCC	AAC	CCC	GGC
Ile	Val	Thr	Lys	Pro	Leu	Thr	Pro	Ala	Ser	Ile	Pro	Ala	Phe	Ser	Pro	Asn	Pro	Glv
3/281									1115	/291	Ĺ							-
AAC	CCC	ACT	CTG	GGC	TTC	AGC	ACC	ACC	CCA	CGC	TTC	AGT	CAT	ССT	GTC	TCC	AGT	ACC
Asn	Pro	Thr	Leu	Gly	Phe	Ser	Thr	Thr	Pro	Arg	Phe	Ser	His	Pro	Val	Ser	Sar	アトー
7301	•								1175	/311								
ATC	AGC	CCC	GTC	TTC	GGT	CCT	AGT	AAC	TGG	CAC	AAC	TTC	GTG	CCA	ССТ	GT2	yC y	GAG
Ile	Ser	Pro	Val	Phe	Gly	Pro	Ser	Asn	Trp	His	Asn	Phe	Val	Pro	Pro	Val	Ara	Clu
7/321									1235	/331	_						_	
GTC	CCA	ACC	CAG	GGT	GCT	GAC	CCT	CTC	CTC	TAC	GGA	TCC	CTC	AAC	ССТ	GTG	CCA	ATC
Val	Pro	Thr	Gln	Gly	Ala	Asp	Pro	Leu	Leu	Tyr	Gly	Ser	Leu	Asn	Pro	Val	Pro	Ile
	TCTCA GCTA GCTA GCTA GCTA GCTA GCTA GCTA	TCCTGGAG, GCTCACGC GCCAATTG AC 5/1 G GGT CTC t Gly Lev 5/21 G ATA CAC y Ile His 5/41 T AAT TTC p Asn Lev 5/61 G TGC CAC s Cys His 5/81 C GAG CTC s Glu Lev 5/101 T TGC AAC c Cys Lys 5/121 T CAG TGT c Cys Cys 6/141 C CAG TGT c Cys Ser 7/201 C CAG AAC c Cys Ser 7/201 ATC AGC ATG TGT ILE Val 5/261 ATT GTT ILE Val 5/261 ATT GTT ILE Val 5/261 ATC AGC ILE Ser 5/301 ATC AGC ILE Ser 5/301 ATC AGC ILE Ser 5/301 ATC AGC ILE Ser 5/321 GTC CCA	TCCTGGAG, GACG GCTCACGC TGCC GCCAATTG CTGC AC 5/1 G GGT CTC CCC t Gly Leu Pro 5/21 G ATA CAC CCA y Ile His Pro 5/41 T AAT TTG TGT p Asn Leu Cys 5/61 G TGC CAC AAA s Cys His Lys 5/61 G TGC CAC AAA s Cys His Lys 5/81 C GAG CTC TCT s Glu Leu Ser 5/101 T TGC AAG ACA c Cys Lys Thr 5/121 G GAC ACC GTG c Asp Thr Val 6/141 C CAG TGT GTG c Gln Cys Val 6/141 C CAG TGT GTG c Gln Asn Thr 6/181 C CAG TGT GTG c Gln Asn Thr 6/181 C CYS Ser His 7/201 GTC ACA AAC Val Thr Asn 7/221 CTT TGC CTT Leu Cys Leu 7/241 AGG GTC TAC Arg Val Tyr 5/261 ATT GTT ACT Ile Val Thr 5/281 AAC CCC ACT Asn Pro Thr 5/301 ATC AGC CCC Ile Ser Pro 5/321 GTC CCA ACC	TCCTGGAG, GACCGTAG GCTCACGC TGCCAACC GCCAATTG CTGCCCTG AC 5/1 G GGT CTC CCC ATC t Gly Leu Pro Ile 5/21 G ATA CAC CCA TCA y Ile His Pro Ser 5/41 T AAT TTG TGT CCC p Asn Leu Cys Pro 5/61 G TGC CAC AAA GGA s Cys His Lys Gly 5/81 C GAG CTC TCT CAT s Glu Leu Ser His 5/101 T TGC AAG ACA TGT Cys Lys Thr Cys 5/121 G GAC ACC GTG TGT CAG TGT GTG GAC c Gln Cys Val Asp 6/161 C CAG TGT GTG GAC c GIn Asn Thr Val c Gln Asn Thr Val c Gln Asn Thr Val c GTC ACA AAC CCC Val Thr Asn Pro //221 CTT TGC CTT TTA Leu Cys Leu Leu //241 AGG GTC TAC TCC Arg Val Tyr Ser 5/261 ATT GTT ACT AAG Ile Val Thr Lys 5/281 AAC CCC ACT CTG ASn Pro Thr Leu 5/301 ATC AGC CCC GTC Ile Ser Pro Val 5/321 GTC CCA ACC CAG	TCCTGGAG, GACCGTACCC CGCTCACGC TGCCAACACC CGCCAATTG CTGCCATGTC CAC  S/1  G GGT CTC CCC ATC GTC  t Gly Leu Pro Ile Val  5/21  G ATA CAC CCA TCA GGC  y Ile His Pro Ser Gly  5/41  T AAT TTG TGT CCC CAC  p Asn Leu Cys Pro Glr  5/61  G TGC CAC AAA GGA ACC  s Cys His Lys Gly Thr  5/81  C GAG CTC TCT CAT AAA  s Glu Leu Ser His Lys  5/101  T TGC AAG ACA TGT CGC  c Asp Thr Val Cys Gly  5/121  G GAC ACC GTG TGT GGC  c Asp Thr Val Cys Gly  5/141  C CAG TGT GTG GAC TGC  c Gln Asn Thr Val Cys  6/141  C CAG AAC ACC GTG TGT  s Gln Asn Thr Val Cys  6/181  C TGC AGC CAC TGC AAG  C Cys Ser His Cys Lys  /201  GTC ACA AAC CCC CAG  Val Thr Asn Pro Gln  /221  CTT TGC CTT TTA TTC  Leu Cys Leu Leu Phe  /241  AGG GTC TAC TCC ATC  Arg Val Tyr Ser Ile  5/261  ATT GTT ACT AAG CCC  Ile Ser Pro Val Phe  5/301  ATC AGC CCC GTC TTC  Ile Ser Pro Val Phe  5/321  GTC CCA ACC CAG GGT  GTC CCA ACC CAG GGT	TCCTGGAG, GACCGTACCC TGAT: GCTCACGC TGCCAACACC CGGGG GCCAATTG CTGCCCTGTC CCCAC AC 5/1 G GGT CTC CCC ATC GTG CCT t Gly Leu Pro Ile Val Pro 5/21 G ATA CAC CCA TCA GGG GTC Y Ile His Pro Ser Gly Val 5/41 T AAT TTG TGT CCC CAG GGA P ASN Leu Cys Pro Gln Gly 5/61 G TGC CAC AAA GGA ACC TAC S Cys His Lys Gly Thr Tyr 5/81 C GAG CTC TCT CAT AAA GGC S Glu Leu Ser His Lys Gly 5/101 F TGC AAG ACA TGT CGG AAA F Cys Lys Thr Cys Arg Lys 5/121 G GAC ACC GTG TGT GGC TGC ASP Thr Val Cys Gly Cys 5/141 C CAG TGT GTG GAC TGC AGC C GIN Cys Val Asp Cys Ser 6/161 A CAG AAC ACC GTG TGT AAC G Gln Asn Thr Val Cys Asn 6/181 C TGC AGC CAC TGC AAG AAA C Cys Ser His Cys Lys Lys 7/201 GTC ACA AAC CCC CAG GAC Val Thr Asn Pro Gln Asp 7/221 CTT TGC CTT TTA TTC TTT Leu Cys Leu Leu Phe Phe 7/241 AGG GTC TAC TCC ATC ATT Arg Val Tyr Ser Ile Ile 5/261 ATT GTT ACT AAG CCC CTA Ile Val Thr Lys Pro Leu 5/281 AAC CCC ACT CTG GGC TTC ASN Pro Thr Leu Gly Phe 5/301 ATC AGC CCC GTC TTC GGT Ile Ser Pro Val Phe Gly 5/321 GTC CCA ACC CAG GGT GCT	TCCTGGAG, GACCGTACCC TGATTTCC/ GCTCACGC TGCCAACACC CGGGCCACC GCCAATTG CTGCCCTGTC CCCAGCCCC AC 5/1 G GGT CTC CCC ATC GTG CCT GGC t Gly Leu Pro Ile Val Pro Gly 5/21 G ATA CAC CCA TCA GGG GTC ACC y Ile His Pro Ser Gly Val Thr 5/41 T AAT TTG TGT CCC CAG GGA AAG p Asn Leu Cys Pro Gln Gly Lys 5/61 G TGC CAC AAA GGA ACC TAC TTG s Cys His Lys Gly Thr Tyr Leu 5/81 C GAG CTC TCT CAT AAA GGC ACC s Glu Leu Ser His Lys Gly Thr 5/101 T TGC AAG ACA TGT CGG AAA GAA T Cys Lys Thr Cys Arg Lys Glu 5/101 G GAC ACC GTG TGT GGC TGC AAG C ASp Thr Val Cys Gly Cys Lys 5/141 C CAG TGT GTG GAC TGC AGC CCC G Gln Cys Val Asp Cys Ser Pro 6/161 A CAG AAC ACC GTG TGT AAC TGC G Gln Asn Thr Val Cys Asn Cys 6/181 C TGC AGC CAC TGC AAG AAA AAT Cys Ser His Cys Lys Lys Asn 7/201 GTC ACA AAC CCC CAG GAC TCA Val Thr Asn Pro Gln Asp Ser 7/201 GTC ACA AAC CCC CAG GAC TCA Val Thr Asn Pro Gln Asp Ser 7/21 ATG GTC TAC TCC ATC ATT TGT Arg Val Tyr Ser Ile Ile Cys 5/261 ATT GTT ACT AAG CCC CTA ACT Ile Val Thr Lys Pro Leu Thr 5/281 AAC CCC ACT CTG GGC TTC AGC Asn Pro Thr Leu Gly Phe Ser 5/301 ATC AGC CCC GTC TTC GGT CCT TILE Ser Pro Val Phe Gly Pro 5/321 GTC CCA ACC CAG GGT GCT GAC	TCCTGGAG, GACCGTACCC TGATTTCCAT CONCINCTACCG TGCCAACACC CGGGCCACCT GGCCAACACC CGGGCCACCT GGCCAATTG CTGCCCTGTC CCCAGCCCCA AND AC  5/1  G GGT CTC CCC ATC GTG CCT GGC CTG t Gly Leu Pro Ile Val Pro Gly Leu 5/21  G ATA CAC CCA TCA GGG GTC ACC GGAY ILE His Pro Ser Gly Val Thr Gly 5/41  T AAT TTG TGT CCC CAG GGA AAG TAT PAST Leu Cys Pro Gln Gly Lys Tyr 5/61  G TGC CAC AAA GGA ACC TAC TTG GTG SC Cys His Lys Gly Thr Tyr Leu Val 5/81  C GAG CTC TCT CAT AAA GGC ACC TTT SG GIU Leu Ser His Lys Gly Thr Phe 5/81  C GAG CTC TCT CAT AAA GGC ACC TTT SG GAC ACG GTG TGT GGC TGC AAG AAG ACG TGC AAG AAG AAG ACA TGT CGG AAA GAA ATG CC Cys Lys Thr Cys Arg Lys Glu Met 5/121  G GAC ACC GTG TGT GGC TGC AAG AAG AAG AAG ASD Thr Val Cys Gly Cys Lys Lys 5/141  C CAG TGT GTG GAC TGC AGC CCC TGC GIN ASD Thr Val Cys Asn Cys His 1/181  C CAG AAC ACC GTG TGT AAC TGC CAC GIN ASN Thr Val Cys Asn Cys His 1/181  C CAG AGC CAC TGC AAG AAA AAT CAG CYs Ser His Cys Lys Lys Asn Gln ASN Thr Val Cys Asn Cys His 1/181  C TTC ACA AAC CCC CAG GAC TCA GGT Val Thr Asn Pro Gln Asp Ser Gly /221  CTT TGC CTT TTA TTC TTT ATC TGC Leu Cys Leu Leu Phe Phe Ile Cys Arg Val Thr Asn Pro Gln Asp Ser Gly /221  AGG GTC TAC TCC ATC ATT TGT AGG ACC ANG Val Thr Asn Pro Leu Thr Pro 5/281  AAC CCC ACT CTG GGC TTC AGC ACC Asn Pro Thr Leu Gly Phe Ser Thr 5/301  ATC AGC CCC GTC TTC GGT CTT AGC ACC Asn Pro Thr Leu Gly Phe Ser Thr 5/301  AAC CCC ACT CTG GGC TTC AGC ACC Asn Pro Thr Leu Gly Phe Ser Thr 5/321  GTC CCA ACC CAG GGT GCT GAC CCT AGT CTG CTG CCC ASC CTA ACC CAG GTC CTA ACC CAG GTC CCC ASC Pro Val Phe Gly Pro Ser 5/321  GTC CCA ACC CAG GGT GCT GAC CCT AGC CCT AGC CCC ASC CCA ACC CAG GGT GCT GAC CCT AGC CCC ASC CCA ACC CAG GGT GCT GAC CCT AGC CCC CTA ACC CAG GTC CCC AGC GTC CCC AGC CCC CTA ACC CCC ASC Pro CCC AGC GGT GCT GAC CCT AGC CCC ASC CCC AGC GGT GCT GAC CCT AGC CCC CTA ACC CAG GGT GCT GAC CCT GCC CTA ACC CAG GGT GCT GAC CCT ACC CCC GTC CTA ACC CAG GGT GCT GAC CCT ACC CCT ACC CCC ACC ACC ACC ACC A	TCCTGGAG, GACGGTACCC TGATTTCCAT CTACC GCTCACGC TGCCAACACC CGGGCCACCT GGTCC GCCCAATTG CTGCCAACACC CGGGCCACCT GGTCC AC  5/1 G GGT CTC CCC ATC GTG CCT GGC CTG CTC t Gly Leu Pro Ile Val Pro Gly Leu Leu 5/21 G ATA CAC CCA TCA GGG GTC ACC GGA CTC y Ile His Pro Ser Gly Val Thr Gly Leu 5/41 T AAT TTG TGT CCC CAG GGA AAG TAT GCC p Asn Leu Cys Pro Gln Gly Lys Tyr Ala 5/61 G TGC CAC AAA GGA ACC TAC TTG GTG AGT S Cys His Lys Gly Thr Tyr Leu Val Ser 5/81 G TGC CAC AAA GGA ACC TAC TTG GTG AGT S Glu Leu Ser His Lys Gly Thr Phe Thr 5/101 T TGC AAG ACA TGT CGG AAA GAA ATG TTC C Cys Lys Thr Cys Arg Lys Glu Met Phe 5/121 G GAC ACC GTG TGT GGC TGC AAG AAG AAC ASP Thr Val Cys Gly Cys Lys Lys Asn 5/141 C CAG TGT GTG GAC TGC AGC CCC TGC C TTC C Gln Cys Val Asp Cys Ser Pro Cys Phe 6/161 A CAG AAC ACC GTG TGT AAC TGC CAC GCA G Gln Asn Thr Val Cys Asn Cys His Ala 6/181 C CAG TGT GTG GAC TGC AGC TCC G GAC C TGC TTC C GAG AAC ACC GTG TGT AAC TGC CAC GCA G Gln Asn Thr Val Cys Asn Cys His Ala 6/181 C CAG CAC ACC GTG TGT AAC TGC CAC GCA C GAC C TGC TTT TTA TTC TTT ATC TGC ATC C TGC ACC ACC CAC GAC TCA AGT ACT C Cys Leu Leu Phe Phe Ile Cys Ile C CYS Leu Leu Phe Phe Ile Cys Ile AGG GTC TAC TCC ATC ATT TGT AGG GAT ATG Val Tyr Ser Ile Ile Cys Arg Asp 5/261 ATT GTT ACT AAG CCC CTA ACT CCA GCC Ile Val Thr Lys Pro Leu Thr Pro Ala AGC CCC ACT CTG GGC TTC AGC ACC ASn Pro Thr Leu Gly Phe Ser Thr Thr 5/301 ATC AGC CCC ACC GTC TCC GGT CTC CCC ACC CAC CAC CAC ASn Pro Thr Leu Gly Phe Ser Thr Thr 5/301 ATC AGC CCC ACC CAG GGT GCT GAC CCT CTC  6TC CCA ACC CAG GGT GCT GAC CCT CTC 6TC CCA ACC CAG GGT GCT GAC CCT CTC 6TC CCA ACC CAG GGT GCT GAC CCT CTC 6TC CCA ACC CAG GGT GCT GAC CCT CTC 6TC CCA ACC CAG GGT GCT GAC CCT CTC 6TC CCA ACC CAG GGT GCT GAC CCT CTC 6TC CCA ACC CAG GGT GCT GAC CCT CTC 6TC CCA ACC CAG GGT GCT GAC CCT CTC 6TC CCA ACC CAG GGT GCT GAC CCT CTC	TCCTGGAG, GACCGTACCC TGATTTCCAT CTACCTCTGG GCCTACGC TGCCAACACC CGGGCCACCT GGTCCGATCC GCCCAATTG CTGCCATGCC CCGGGCCACCT GGTCCGATCC GCCCAATTG CTGCCCTGTC CCCAGCCCCA ATGGGGGAGT AC  5/1  275  6 GGT CTC CCC ATC GTG CCT GGC CTG CTG t Gly Leu Pro Ile Val Pro Gly Leu Leu Leu 5/21  6 ATA CAC CCA TCA GGG GTC ACC GGA CTG GTT y Ile His Pro Ser Gly Val Thr Gly Leu Val 5/41  7 AAT TTG TGT CCC CAG GGA AAG TAT GCC CAT p Asn Leu Cys Pro Gln Gly Lys Tyr Ala His 5/61  6 TGC CAC AAA GGA ACC TAC TTG GTG AGT S Cys His Lys Gly Thr Tyr Leu Val Ser Asp 5/81  5 CGAG CTC TCT CAT AAA GGC ACC TTT ACA GCT S Glu Leu Ser His Lys Gly Thr Phe Thr Ala 5/101  7 TGC AAG ACA TGT CGG AAA GAA ATG TTC CAG S Cys Lys Thr Cys Arg Lys Glu Met Phe 6/121  6 GAC ACC GTG TGT GGC TGC AAG AAG AAC CAA C ASp Thr Val Cys Gly Cys Lys Lys Asn Gln 6/141  C CAG TGT GTG GAC TGC AGC CCC TGC TTC AAT 6/141  C CAG ACC ACC GTG TGT AAC TGC CAC GCA GGA GIN Asn Thr Val Cys Asn Cys His Ala Gly 1/181  C CAG AAC ACC GTG TGT AAC TGC CAC GCA GGA GIN Asn Thr Val Cys Asn Cys His Ala Gly 1/181  1 TGC AGC CAC TGC AAG AAA AAT CAG GAA TGT 1 TGC CAC ACC CAC GCA GGA 1 TGT ACA ACC CTG TGT AAC TGC CAC GCA GGA 1 TGC AGC ACC ACC CAC GAC GAC 1 TGC AGC ACC AGC CAC GCA GGA 1 TGC AGC CAC TGC AAG AAA AAT CAG GAA 1 TGC AGC CAC TGC AAG AAA AAT CAG GAA 1 TGC AGC CAC TGC AAG AAA AAT CAG GAA TGT 1 TGC AGC CAC TGC AAG 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CAG GAC TCA AGA AAA TCA AGT CTA CTG Leu Cys Leu Leu Phe Phe Ile Cys Ile Ser Leu Leu 995/251  ATT TGC CTT TTA TTC TTT ATC TGC ATC AGT CTA CTG Leu Cys Leu Leu Phe Phe Ile Cys Ile Ser Leu Leu 995/251  ATT GTT ACT AAG CCC CTA ACT CCA GCC TCT ATC CCA Ang Val Tyr Ser Ile Ile Cys Arg Asp Ser Ala Pro 1055/271  ATT GTT ACT AAG CCC CTA ACT CCA GCC TCT ATC CCA Ang Pal Tyr Ser Ile Ile Cys Arg Asp Ser Ala Pro 1055/271  ATT GTT ACT CAG GCC TTC AGC ACC CCA CGC TTC Ang Val Tyr Ser Ile Ile Cys Arg Asp Ser Ala Pro 1055/271  ACC CCA CCC GTC TTC GGT CTT AGT ACC TGC CTC TCT CTC And CCC ACC CTC TTC CGT CTC TCT CTC TCC	TCCTGGAG, GACCGTACCC TGATTTCCAT CTACCTCTGA CTTGAGCCT GCCTAACGC TGCCAACAC CGGGCCCACT GGTCCGATCG TCTTACTTCA GCCAATTG CTGCCCTGTC CCCAGCCCCA ATGGGGGAGT GAGAGAGGCC AC  275/11  G GGT CTC CCC ATC GTG CCT GGC CTG CTG TCA CTG GTG t Gly Leu Pro Ile Val Pro Gly Leu Leu Leu Ser Leu Val 335/31  G ATA CAC CCA TCA GGG GTC ACC GGA CTG GTT CCT TCT CTT y Ile His Pro Ser Gly Val Thr Gly Leu Val Pro Ser Leu 5/41  T AAT TTG TGT CCC CAG GGA AAG TAT GCC CAT CCA AAG AAT p Asn Leu Cys Pro Gln Gly Lys Tyr Ala His Pro Lys Asn Asn Leu Cys Pro Gln Gly Lys Tyr Ala His Pro Lys Asn 5/5/11  G TGC CAC AAA GGA ACC TAC TTG GTG AGT GAC TGT CCA AGC S Cys His Lys Gly Thr Tyr Leu Val Ser Asp Cys Pro Ser 5/81  C GAG CTC TCT CAT AAA GGC ACC TTT ACA GCT TCG CAG AAC S Glu Leu Ser His Lys Gly Thr Phe Thr Ala Ser Gln Asn 5/101  T TGC AAG ACA TGT CGG AAA GAA ATG TTC CAG GTG 6/35/131  G GAC ACC GTG TGT GGC TGC AAG AAG AAC CAA TTC CAG GTG 6/35/131  G GAC ACC GTG TGT GGC TGC AAG AAG AC CAT TCC AG GTG 6/5/141  C CAG TGT GGC GG ACC CCC TGC TTC AAT GGC ACC 6/5/141  C CAG TGT GTG GAC TGC AGC CCC TGC TTC AAT GGC ACC 6/5/141  C CAG TGT GTG GAC TGC AGC CCC TGC TTC AAT GAC 6/5/161  A CAC AAC ACC GTG TGT AAC TGC CAC GAA GAT TC 6/5/161  C CAG TGT GTG GAC TGC AGC CCC TGC TTC AAT GAC 6/5/161  C CAG TGT GTG GAC TGC AGC CCC TGC TTC AAT GAC 6/5/161  C CAG CAC TGC AAG AAA AAT CAG GAA TGT ATG AGC 6/5/161  C CAG CAC TGC AAG AAA AAT CAG GAA TGT ATG AAG 6/161  C CAC TGT GAAG AAA AAT CAG GAA TGT ATG AAG 6/161  C CAC TGC AAG AAA AAT CAG GAA TGT ATG AAG 7/5/171  C CAC ACC CTG TAAC TGC CAC GCA GGA TTC TTT CTA 7/161  C CAC ACC CTG CAAG AAA AAT CAG GAA TGT ATG AAG 7/5/171  C CAC ACC CTG CAAG AAA AAT CAG GAA TGT ATG AAG 7/5/171  C CAC ACC CTG CAAG AAA AAT CAG GAA TGT ATG AAG 7/5/171  C CAC ACC CTG CAAG AAA AAT CAG GAA TGT ATG AAG 7/5/171  C TT TGC CTT TTA TTC TTT ATC TGC ATC CCC GTG CTG TTG 7/2/101  C TT TGC CTT TTA TTC TTT ATC TGC ATC ACT CTG TGC 1/2/101  C TT TGC CTG TAG TAC TCC ATC ATT TTT ATC TGC CTG TTG 1/2/101  C TT TGC CTG TAG TAC ACC CCC AGG AT CTA GTT CTG CTG 1/2/101  C TT TGC	TCCTGGAG, GACCGTACCC TGATTTCCAT CTACCTCTGA CTTTACAGCCT TTCC GCCTACAGC TGCCACACCC CGGCCACCT GGTCCGATCG TCTTACTTCA TTC GCCCAATTG CTGCCCTGTC CCCAGCCCCA ATGGGGGAGT GAGAGAGGCC ACTC AC  275/11  G GGT CTC CCC ATC GTG CCT GGC CTG CTG TCA CTG GTG CTC t Gly Leu Pro 1le Val Pro Gly Leu Leu Ser Leu Val Leu Ser Leu Val Leu 335/31  G ATA CAC CCA TCA GGG GTC ACC GGA CTG GTT CCT TCT CTT GGT y 1le His Pro Ser Gly Val Thr Gly Leu Val Pro Ser Leu Gly 5/41  T AAT TTG TGT CCC CAG GGA AAG TAT GCC CAT CCA AAG AAT AAT p Asn Leu Cys Pro Gln Gly Lys Tyr Ala His Pro Lys Asn Asn 5/61  G TGC CAC AAA GGA ACC TAC TTG GTG ACT GGC TGT CCA AGC CCA SC Cys His Lys Gly Thr Tyr Leu Val Ser Asp Cys Pro Ser Pro 5/81  G GGA CTC TCT CAT AAA GGC ACC TTT ACA GCT TCG CAG AAC CAC SC Glu Leu Ser His Lys Gly Thr Tyr Leu Val Ser Gln Asn His 5/101  T TGC AAG ACA TGT CGG AAA GAA ATG TT CCA CYS Lys Thr Cys Arg Lys Glu Met Phe Gln Val Glu Ile Ser 6/121  G GAC CC GTG TGT GGC TGC AAG AAG ACC CAC GCC TAC CASP Thr Val Cys Gly Cys Lys Asn Gln Phe Gln Arg Tyr 6/121  G GAC ACC GTG TGT AAC TGC CAG CCC TCC TCC AAC CCC CASP Thr Val Cys Gly Cys Lys Lys Asn Gln Phe Gln Arg Tyr 6/161  C CAG AAC ACC GTG TGT AAC TGC CAC GCA GAC TTC CAC CAG AAC ACC GTG TGT AAC TGC CAC GCA GAC CAC GAG ACC GTG TGT AAC TGC CAC GCA GAC CAC GAG ACC GTG TGT AAC TGC CAC GCA GAC CAC GAG ACC GTG TGT AAC TGC CAC GCA GAC CAC GAG ACC GTG TGT AAC TGC CAC GCA GAC CAC GAG ATT CTT TCT ACC CAC AAC ACC CTG TAC AAC AAC ACC CCC TCC TCC AAC CAC GAC TAC TAC ACC CCC TCC TCC AAC CAC GAC TAC TCC ACC CAC GAC TCC TCC TCC ACC CAC AAC CCC CAC GAC TCC AGC CCC TCC TCC ACC CAC AAC CCC CAC GAC TCC ACC CCC TCC TCC ACC CAC AAC CCC CAC GAC TCC ACC CCC TCC TCC ACC CAC AAC CCC CAC GAC TCC ACC CCC TCC TCC TCC ACC CCC ACC CCC TTC AAC AAC CCC CAC GAC TCC CCC TCC TCC TCC ACC CCC ACC TCC TTA TTC TTT ATC TTG AGG ATT CAC CCC GCC GTG TCG CCC ACC CCC TTTA TTC TTT ATC TTG AGG GAT TCA GCC TCC TCC CTT TGC CTT TTA TCC TTT ATC TTT ATC TGC ACC ACC TCC TCC CCC CTT TAC TCC TAC ACC CCC TCC TAC ACC CCC TTC CTT TAC CCA ACC CCC TTC ACC ACC CCC TTC TCC T	TECTGAGA, GACCGTACCC TAGATITCCAT CTACCTCTGA CTTTAGACCT TICTACACA GCCTAGACG TGCCAACACC CGGGCCCACT GGTCCGATCG TCTTACTTCA TICACCA GCCCAATTG CTGCCCTGTC CCCAGCCCCA ATGGGGGAGT GAGAGAGGCC ACTGCCGA C S S S S S S G GGCT CTC CCC ATC GGG CTG GGC GGC GGC GGC GGC GGC GGC G	5/1  G GGT CTC CCC ATC GTG CCT GGC CTG CTG CTG CTG CTG CTC CTG GCT CTG CTG	TECTGAGA, GACCGTACCC TGATTTCCAT CTACCTCTGA CTTTACCCT TITCAACCGG GCCTACAGG TGCCAACACC CGGGCCCACC GGTCCGACG CTTTACCTCAT TACACAGGG AC  5/1  G GGT CTC CCC ATC GTG CCT GGC CTG CTG CTG TCA CTG GTG CTC CTG GCT CTC 5/2  G ATA CAC CCA ATC GTG CCT GGC CTG CTG CTG TCA CTG GTG CTC CTG ATC Y 11e His Pro Ser Gly Val Thr Gly Leu Leu Ser Leu Val Leu Leu Ast Leu 15/21  335/31  G ATA CAC CCA TCA GGG GTC ACC GGA CTG GTT CCT TCT CTT GGT GAC CGG GAY Y 11e His Pro Ser Gly Val Thr Gly Leu Val Pro Ser Leu Gly Asp Arg Gly 17/1  AAT TTG TGT CCC CAG GGA AAG TAT GCC CAT CCA AAG AAT AAT TCC ATC TGC P ASA Leu Cys Pro Gln Gly Lys Tyr Ala His Pro Lys Asa Asa Ser Ile Cy; 15/61  G TGC CAC AAA GGA ACC TAC TTG GTG AGT GAC TCC AAG AAT AAT TCC ATC TGC P ASA Leu Cys Pro Gln Gly Lys Tyr Ala His Pro Lys Asa Asa Ser Ile Cy; 15/81  G TGC CAC AAA GGA ACC TAC TTG GTG AGT GAC TGC CCA AGG CAG GAC S Cys His Lys Gly Thr Tyr Leu Val Ser Asp Cys Pro Ser Pro Gly Gln Gly 15/81  C GAG CTC TCT CAT AAA GGC ACC TTT ACA GCT TCG CAA GAC CAC GTC AGA CAC S Glu Leu Ser His Lys Gly Thr Phe Thr Ala Ser Gln Asa His Val Arg Gly 15/10  T TGC AAG ACA TGT CGG AAA GAA ATG TTC CAG GTG GAG AAC CAC GTC AGA CC STS Lys Thr Cys Arg Lys Glu Met Phe Gln Val Glu Ile Ser Pro Cys Lys 15/11  T GC AAG ACC GTG TGT GGC TGC CAG AAA GAC CAA TTC CAG GTG GAG ATT CTC CTA GAT Cys Lys Thr Val Cys Gly Cys Lys Lys Asa Gln Phe Gln Arg Tyr Leu Ser Glu 16/11  C CAG TGT GTG GAC TGC AGC CCC TGC TTC AAT GGC ACC GTG ACA ATC CCC TGT 26/11  C CAG TGT GTG GAC TGC AGC CCC TGC TTC AAT GGC ACC GTG ACA ATC CCC TGT 26/11  C CAG TGT GTG GAC TGC AGC CCC TGC TTC AAT GGC ACC GTG ACA ATC CCC TGT 26/11  C CAG TGT GTG GAC TGC AGC ACA CGC GCG TGC TTC TTT CTA AGC GAA ATC CAC SGC TTC AGC AGA AAA AAT CAG GAA TGT ATC CYS Ser His Cys Lys Lys Asa Gln Phe Asa Gly Thr Val Thr Ile Pro Cys 16/16  CAG ACA CAC CTG TGT AAC TGC CAC GAC GCC GTG TCT TTT CCT ACC CAC Cys Ser His Cys Lys Lys Asa Gln Cys GTG TTC TTT CCT ATC CTC Cys Ser His Cys Lys Lys Asa Gly Trr Ala Cys Acc CTG TGC CTA CTC Cys Ser His Cys Lys Lys Asa Gly Trr Ala Cys Cac CTC TAC	TECTGAGAG, GACCGTACCC TGATTCCAT CTACCTCTGA CTTTGAGCCT TTCTAACCCG GCCCAACTG CGCCCAACC CGGGCCCCCA ATGGGGGAGTG TCTTTACTTCA TTACCAGGGGGCCAACTG CTGCCACCCC CGGCCCCCACCCCCCCCCC

AAAAAAGGAA TTC

### FIG. 8B

1265/341								129	5/35	1							
CCC GCC CCT																	
Pro Ala Pro	Val	Arg	Lys	Trp	Glu	Asp	Val	Val	Ala	Ala	Gln	Pro	Gln	Arg	Leu	Asp	Thr
1325/361		_	_						3/371								
GCA GAC CCT																	
Ala Asp Pro	Ala	Met	Leu	Tyr	Ala	Val	Val				Pro	Pro	Thr	Arg	Trp	Lys	Glu
1385/381									5/391								
TTC ATG CGG																	
Phe Met Arg	Leu	Leu	Gly	Leu	Ser	Glu	His				Arg	Leu	Glu	Leu	Gln	Asn	Gly
1445/401									5/411								
CGT TGC CTC																	
Arg Cys Leu	Arg	Glu	Ala	His	Tyr	Ser	Met				Trp	Arg	Arg	Arg	Thr	Pro	Arg
1505/421									5/431								
CAC GAG GCC																	
His Glu Ala	Thr	Leu	Asp	Val	Val	Gly	Arg				Asp	Met	Asn	Leu	Arg	Gly	Cys
1565/441									6/451	-	mcc	maa			~		
CTG GAG AAC																	
Leu Glu Asn	тте	Arg	GIU	Thr	ren	GIU	Ser	PIO	Ala	HIS	ser	ser	THE	Thr	HIS	ren	Pro
1625/461																	
CGA TAA	-																
Arg Stop	GGCC			3300	103 <i>00</i>			OBC	CDBC		יארי כ	-C#C	ית א ת אי	<b>T</b>	1680		
GCCCTGCTTC														-	1740		
CTCGATCTGG														_	1800		
GCCGAGGACA															1860		
GACAGCTGAG															1920		
GATACCCACT															1980		
CTGGGCCCTT !															2040		
GAACGGTTGA			-						-			-		_	2100		
														•			

2160

#### FIG. 9A

60

GAATTCTCTG, GACTGAGGCT CCAGTTCTGG CCTTTGGGGT TCAAGATCAC TGGGACCAGG

#### huTNF-R

1053/281

1113/301

CCGTGATCTC TATGCCCGAG TCTCAACCCT CAACTGTCAC CCCAAGGCAC TTGGGACGTC 120 CTGGACAGAC CGAGTCCCGG GAAGCCCCAG CACTGCCGCT GCCACACTGC CCTGAGCCCA 180 AATGGGGGAG TGAGAGGCCA TAGCTGTCTG GC 213/1 243/11 ATG GGC CTC TCC ACC GTG CCT GAC CTG CTG CTG CCA CTG GTG CTC CTG GAG CTG TTG GTG Met Gly Leu Ser Thr Val Pro Asp Leu Leu Leu Pro Leu Val Leu Leu Glu Leu Leu Val 273/21 303/31 GGA ATA TAC CCC TCA GGG GTT ATT GGA CTG GTC CCT CAC CTA GGG GAC AGG GAG AAG AGA Gly Ile Tyr Pro Ser Gly Val Ile Gly Leu Val Pro His Leu Gly Asp Arg Glu Lys Arg 333/41 363/51 GAT AGT GTG TGT CCC CAA GGA AAA TAT ATC CAC CCT CAA AAT AAT TCG ATT TGC TGT ACC Asp Ser Val Cys Pro Gln Gly Lys Tyr Ile His Pro Gln Asn Asn Ser Ile Cys Cys Thr 393/61 423/71 AAG TGC CAC AAA GGA ACC TAC TTG TAC AAT GAC TGT CCA GGC CCG GGG CAG GAT ACG GAC Lys Cys His Lys Gly Thr Tyr Leu Tyr Asn Asp Cys Pro Gly Pro Gly Gln Asp Thr Asp 453/81 483/91 TGC AGG GAG TGT GAG AGC GGC TCC TTC ACC GCT TCA GAA AAC CAC CTC AGA CAC TGC CTC Cys Arg Glu Cys Glu Ser Gly Ser Phe Thr Ala Ser Glu Asn His Leu Arg His Cys Leu 513/101 543/111 AGC TGC TCC AAA TGC CGA AAG GAA ATG GGT CAG GTG GAG ATC TCT TCT TGC ACA GTG GAC Ser Cys Ser Lys Cys Arg Lys Glu Met Gly Gln Val Glu Ile Ser Ser Cys Thr Val Asp 603/131 CGG GAC ACC GTG TGT GGC TGC AGG AAG AAC CAG TAC CGG CAT TAT TGG AGT GAA AAC CTT Arg Asp Thr Val Cys Gly Cys Arg Lys Asn Gln Tyr Arg His Tyr Trp Ser Glu Asn Leu 633/141 663/151 TTC CAG TGC TTC AAT TGC AGC CTC TGC CTC AAT GGG ACC GTG CAC CTC TCC TGC CAG GAG Phe Gln Cys Phe Asn Cys Ser Leu Cys Leu Asn Gly Thr Val His Leu Ser Cys Gln Glu 723/171 AAA CAG AAC ACC GTG TGC ACC TGC CAT GCA GGT TTC TTT CTA AGA GAA AAC GAG TGT GTC Lys Gln Asn Thr Val Cys Thr Cys His Ala Gly Phe Phe Leu Arg Glu Asn Glu Cys Val 753/181 783/191 TCC TGT AGT AAC TGT AAG AAA AGC CTG GAG TGC ACG AAG TTG TGC CTA CCC CAG ATT GAG Ser Cys Ser Asn Cys Lys Lys Ser Leu Glu Cys Thr Lys Leu Cys Leu Pro Gln Ile Glu 813/201 843/211 AAT GTT AAG GGC ACT GAG GAC TCA GGC ACC ACA GTG CTG TTG CCC CTG GTC ATT TTC TTT Asn Val Lys Gly Thr Glu Asp Ser Gly Thr Thr Val Leu Leu Pro Leu Val Ile Phe Phe 903/231 GGT CTT TGC CTT TTA TCC CTC CTC TTC ATT GGT TTA ATG TAT CGC TAC CAA CGG TGG AAG Gly Leu Cys Leu Leu Ser Leu Leu Phe Ile Gly Leu Met Tyr Arg Tyr Gln Arg Trp Lys 933/241 963/251 TCC AAG CTC TAC TCC ATT GTT TGT GGG AAA TCG ACA CCT GAA AAA GAG GGG GAG CTT GAA Ser Lys Leu Tyr Ser Ile Val Cys Gly Lys Ser Thr Pro Glu Lys Glu Gly Glu Leu Glu

1023/271

1083/291

1143/311

1203/331

GGA ACT ACT ACT AAG CCC CTG GCC CCA AAC CCA AGC TTC AGT CCC ACT CCA GGC TTC ACC Gly Thr Thr Thr Lys Pro Leu Ala Pro Asn Pro Ser Phe Ser Pro Thr Pro Gly Phe Thr

CCC ACC CTG GGC TTC AGT CCC GTG CCC AGT TCC ACC TTC ACC TCC AGC TCC ACC TAT ACC Pro Thr Leu Gly Phe Ser Pro Val Pro Ser Ser Thr Phe Thr Ser Ser Ser Thr Tyr Thr

CCC GGT GAC TGT CCC AAC TTT GCG GCT CCC CGC AGA GAG GTG GCA CCA CCC TAT CAG GGG Pro Gly Asp Cys Pro Asn Phe Ala Ala Pro Arg Arg Glu Val Ala Pro Pro Tyr Gln Gly

GCT GAC CCC ATC CTT GCG ACA GCC CTC GCC TCC GAC CCC ATC CCC AAC CCC CTT CAG AAG Ala Asp Pro Ile Leu Ala Thr Ala Leu Ala Ser Asp Pro Ile Pro Asn Pro Leu Gln Lys

### FIG. 9B

1233/34	1								126	3/35:	1.							
TGG GAG	GAC	AGC	GCC	CAC	AAG	CCA	CAG	AGC	CTA	GAC	ACT	GAT	GAC	CCC	GCG	ACG	CTG	TAC
Trp Glu	Asp	Ser	Ala	His	Lys	Pro	Gln	Ser	Leu	Asp	Thr	Asp	Asp	Pro	Ala	Thr	Leu	Tvr
1293/36	1								1323	3/371	L							-
GCC GTG	GTG	GAG	AAC	GTG	ccc	CCG	TTG	CGC	TGG	AAG	GAA	TTC	GTG	CGG	CGC	CTA	GGG	CTG
Ala Val	Val	Glu	Asn	Val	Pro	Pro	Leu	Arg	Trp	Lys	Glu	Phe	Val	Arg	Arg	Leu	Gly	Leu
1353/38	-									3/391					_		-	
AGC GAC	CAC	GAG	ATC	GAT	CGG	CTG	GAG	CTG	CAG	AAC	GGG	CGC	TGC	CTG	CGC	GAG	GCG	CAA
Ser Asp	His	Glu	Ile	Asp	Arg.	Leu	Glu	Leu	Gln	Asn	Gly	Arg	Cys	Leu	Arg	Glu	Ala	Gln
1413/40										3/411								
TAC AGC	ATG	CTG	GCG	ACC	TGG	AGG	CGG	CGC	ACG	CCG	CGG	CGC	GAG	GCC	ACG	CTG	GAG	CTG
Tyr Ser	Met	Leu	Ala	Thr	Trp	Arg	Arg	Arg				Arg	Glu	Ala	Thr	Leu	Glu	Leu
1473/42										3/431								
CTG GGA	CGC	GTG	CTC	CGC	GAC	ATG	GAC	CTG	CTG	GGC	TGC	CTG	GAG	GAC	ATC	GAG	GAG	GCG
Leu Gly	Arg	val	Leu	Arg	Asp	Met	Asp	Leu				Leu	Glu	Asp	Ile	Glu	Glu	Ala
1533/44										3/451								
CTT TGC	GGC	CCC	GCC	GCC	CTC	CCG	CCC	GCG	CCC	AGT	CTT	CTC	AGA	TGA				1580
Leu Cys	СтА	Pro	ATA	АТА	Leu	Pro	Pro	Ala	Pro	Ser	Leu	Leu	Arg	Stop	•			
GGCTGCG	CCC (	ጉሞራር	ccci	.c. c.	•	CCNC		100mc		1.	- 2 4							
GATCGCC											520 SCNC6				_			
CTAGCAG	cce c	ירידער מידיטי	ישירטי. ישירים לי	T GC	ית מיחי. אור בי	,100%	CCN	OMOU TO TO	CAM	ACCE	CAGO		AAGC	AGGA	IG	1680		
GCGCCGC	CGA C	AGTO	,7CC	יי שני	י דעער כ		CAC	11011	CAL	VGCT	CTCC	TC F	IGCTO	CCTG	iC 	1740		
GAGTGGG:	rgg 1	ישינוכ	GAGG	A TO	) DOC	ACCC	י שמטי י ייים	CCCT	יים אניטינ יים אניטינ	GCCC	.G.T.G.	mc c	CMAC	AGCC	T	1800		
CCAGCAA																1860		
AGTTTTT	rtt G	TTTT	TGTT	T TG	TTTT	החידים	TGT	L L L L L	LAA	TCAA	TICA TENT	CT T		יית גייניי אור גייניי	)	1920 1980		
GAAACTT	GC A	CTCC	TGTG	ic cc	TCTG	CCTG	GAC	AAGC	ACA	TAGO	ANGO	TC N	ACTC	ムししゅ	A.	2040		
AGGCAGGG	GC G	AGCA	CGGA	A CA	ATGG	GGCC	TTC	AGCT	GGA	GCTG	TGGA	בים בי	TO TO	ACAT	. N	2100		
CACTAAAA	ATT C	TGAA	GTTA	A AA	AAAA	AAAA	AAA	AGGA	ATT	Ċ		<b>-</b> .	01			2141		
										•						~ 1 4 1		

FIG.10



